

## **The Effect of Nitrogen Fertilizer Use Efficiency in Corn Yield and Yield Components in Cultivars KSC 704**

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**Abstract :** In order to survey the nitrogen use efficiency in corn, the experimental plot in a randomized complete block design 2014 agricultural farm was Islamic Azad University of Karaj. The main factor was four levels of nitrogen fertilizer (respectively control, 150, 200 and 250 kg nitrogen fertilizer) and subplots consisted two levels of superabsorbent polymer Stockosorb (use, do not use). Analysis of variance is showed that different nitrogen levels and different superabsorbent of levels statistically significant. Comparisons average also showed there is a significant difference between use and non-use of superabsorbent. The results showed the interactions nitrogen and SAP by one percent level has a significant and effect on Fresh weight per plant, plant dry weight, biological yield, harvest index, cob diameter, cob dry weight, leaf width, leaf area were at the level of five percent statistical significant effect on Ear weight and grain yield.

**Keywords :** corn, nitrogen, comparison, biological yield

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